

# Software Engineer

Modular mindset, computational thinker, quick-witted, accelerated-learning engineer with an inquisitive mind who excels at executing deliverables via JavaScript and Python.

## EXPERIENCE

### DEMRRAR, LLC — *Software Engineer Intern*

JUN 2021 - AUG 2021 • Remote

Led agile scrum meetings for web data extraction stored in relational databases. Established development team with GitHub contribution guidelines. Developed web data extraction tool that harvests Wikipedia pages and generates a Neo4j database of Wikipedia. Delegated team assignments and contributed the refactored and efficient code to the build.

**Technologies** — Python, Simple algorithms, Critical thinking, Data visualization, Data processing, Neo4j, RabbitMQ, Web scraping

## PROJECTS

### Traverse Wikipedia — [deployment](#)

Visualized relational data using a force-graph library. Implemented asynchronous functions and calls in the form of Promises. Applied algorithms to real problems or ideas and level-order traversal with caching and path mapping.

**Technologies** — Javascript, Simple algorithms, REST API, Critical thinking, Data visualization, Data processing, CSS3

### Chess Bot — [deployment](#)

Developed an interactive chess board with draggable elements and game flow. Implemented game tree search algorithms and incorporated Alpha-Beta and null move pruning, principal variation search, and transposition table. Developed killer move and history heuristics. Implemented an opening book and encyclopedia via data processing

**Technologies** — Javascript, Application specific algorithm, Search algorithm, Complex algorithms, CSS, Data processing (openings), Critical thinking

### Bug Tracker — [demo](#)

Utilized templating engines to create “views”. Utilized Bootstrap modals and developed backend routes for Express. Created SQL database schemas for relational data.

**Technologies** — Express.js, Sequelize, Node.js, Bootstrap, Deployment, Team collaboration, Data Models, Backend templates, CSS

## EDUCATION

### Santiago Canyon College — AS-T Computer Science

AUG 2021 - JUN 2023 • Orange, CA

Societies: STEM Program, Student Body

### UC Irvine Web Developer Bootcamp — *Full-Stack Web Developer*

NOV 2021 - JUN 2022 • Irvine, CA

## Benjamin Wirth

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<https://github.com/benw10-1>

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## SKILLS

Javascript (NodeJS, ReactJS)

Python (Django)

Simple algorithms

Dynamic Programming

REST API

Critical thinking

Data visualization

Data processing

HTML5/CSS3

Application specific algorithms

Search algorithms

Complex algorithms

Express.js

Deployment

Team collaboration

Data Models

Backend templates

Neo4j

## LANGUAGES

JavaScript (Intermediate)

Python3 (Intermediate)

C, C#, C++ (Beginner)

## ACTIVITY

**Hackerrank.com**

@benjaminwirth10

**Leetcode.com**

@ben\_wirth10

